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REMARK OFFICE

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371		ATTORNEY'S DOCKET NUMBER 22078/0001	
INTERNATIONAL APPLICATION NO. PCT/UA00/00834		INTERNATIONAL FILING DATE 12 July 2000	PRIORITY DATE CLAIMED 12 July 1999
TITLE OF INVENTION Security Screw			
APPLICANT(S) FOR DO/EO/US RAWSON-HARRIS, Douglas			
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information			
<p>1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a filing under 35 U.S.C. 371</p> <p>2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. § 371.</p> <p>3. <input checked="" type="checkbox"/> This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(h) and PCT Articles 22 and 39(1).</p> <p>4. <input checked="" type="checkbox"/> A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))</p> <p style="margin-left: 20px;">a. <input checked="" type="checkbox"/> is transmitted herewith (required only if not transmitted by the International Bureau).</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> has been transmitted by the International Bureau.</p> <p style="margin-left: 20px;">c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input type="checkbox"/> A translation of the International Application into English (35 U.S.C. 371(c)(2)).</p> <p>7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <p style="margin-left: 20px;">a. <input type="checkbox"/> are transmitted herewith (required only if not transmitted by the International Bureau)</p> <p style="margin-left: 20px;">b. <input type="checkbox"/> have been transmitted by the International Bureau</p> <p style="margin-left: 20px;">c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired</p> <p style="margin-left: 20px;">d. <input type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> A translation of the Annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p> <p>Items 11. to 16. below concern other document(s) or information included:</p> <p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included</p> <p>13. <input checked="" type="checkbox"/> A FIRST preliminary amendment.</p> <p>14. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A change of power of attorney and/or address letter</p> <p>17. <input checked="" type="checkbox"/> Other items or information: Petition to revive</p>			

U.S. APPLICATION NO. **107 069146**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: :
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 Douglas Rawson-Harris :
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 Serial No.: To be assigned : Art Unit: To be assigned
 :
 Filed: Herewith : Examiner: To be assigned
 :
 For: Security Screw : Atty Docket: 22078/0001
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PRELIMINARY AMENDMENT

Commissioner for Patents
 Washington, D.C. 20231

Sir:

Prior to initial examination, please amend the above-captioned case as follows.

IN THE CLAIMS

Please amend the claims as follows.

5. (Amended) A security screw as defined in claim 1 wherein the washer has an inner edge portion adapted to extend axially above the top of the exposed surface of the screw and the washer is of a relatively hard material to resist cutting of the washer.

Please add the following new claims.

¹² H1. (Added) A security screw as defined in claim 2 wherein the washer has an inner edge portion adapted to extend axially above the top of the exposed surface of the screw and the washer is of a relatively hard material to resist cutting of the washer.


¹³ H2. (Added) A security screw as defined in claim 3 wherein the washer has an inner edge portion adapted to extend axially above the top of the exposed surface of the screw and the washer is of a relatively hard material to resist cutting of the washer.

14 13. (Added) A security screw as defined in claim 4 wherein the washer has an inner edge portion adapted to extend axially above the top of the exposed surface of the screw and the washer is of a relatively hard material to resist cutting of the washer.

REMARKS

The claims have been amended to eliminate multiple dependency and to improve their format. None of these amendments is believed to involve any new matter. Accordingly, it is respectfully requested that the foregoing amendments be entered, that the application as so amended receive an examination on the merits, and that the claims as now presented receive an early allowance.

Respectfully submitted,



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Date: 2-22-02

APPENDIX – MARKED UP SET

5. (Amended) A security screw as defined in [any one of the preceding claims] claim 1 wherein the washer has an inner edge portion adapted to extend axially above the top of the exposed surface of the screw and the washer is of a relatively hard material to resist cutting of the washer.

WO 01/04501

PCT/AU00/00834

- 1 -

SECURITY SCREWField of the Invention

- This invention relates to a security screw and has
- 5 been devised particularly though not solely for the fastening together of components in structures requiring a vandal proof or tamper proof installation.

Background of the Invention

- 10 There are many situations where it is necessary to fasten together components of a structure or apparatus which are to be used in an environment which is susceptible to vandalism or unauthorised tampering. The present security screw has been devised particularly for use in
- 15 fastening components such as street signs, banner arms and other fittings to roadside poles or other similar installations. It is envisaged however that a security screw of this type has a much wider application such as the fastening of window locks or door locks or in any other
- 20 situation where a screw type fastener must be secured by an authorised user while yet remaining difficult or impossible to release by an unauthorised user.

Summary of the Invention

- 25 In one aspect, the present invention provides a security screw comprising a threaded shank portion and a head portion, the head portion being characterised by having a circular profile about the axis of the shank portion and a smooth exposed surface without any tool
- 30 engagement slots or discontinuities.

Preferably the exposed surface of the head portion is in the form of a dome-shaped crown. Alternatively the exposed surface is substantially flat with a rounded shoulder to a cylindrical periphery of the head portion.

- 35 Alternatively the exposed surface of the head portion includes a recess of a symmetrical configuration which is disposed coaxial with the threaded shank portion.

Preferably the recess is at least partly hemispheroidal.

Preferably the security screw is manufactured by the so-called "cold headed" process from a corrosion resistant material such as austenitic stainless steel.

5 Preferably the screw is manufactured from 316 or 304 stainless steel.

10 In a further aspect the present invention provides a driving tool for a predetermined security screw of the type comprising a threaded shank portion and a head portion, the head portion of the security screw being characterised by having a circular profile about the axis of the shank portion and a smooth exposed surface without any tool engagement slots or discontinuities, the driving tool comprising a shank portion adapted to be rotated by a
15 suitable implement and a head engaging portion incorporating a friction drive surface which is coaxial with the shank portion, the friction drive surface being configured to fit over the head portion of the screw so as to provide a friction drive between the head engaging
20 portion and the security screw when the driving tool is rotated by the implement.

Preferably the shank portion of the driving tool is adapted to fit into the chuck of a power drill.

25 Preferably the frictional drive surface in the head engaging portion is at least in part shaped complementary to the exposed surface of the head portion of the security screw.

Preferably the head engaging portion includes a concave recess such as a female dome-shaped recess.

30 Alternatively the frictional drive surface in the head engaging portion includes a recess having a substantially cylindrical wall immediately adjacent a mouth of the recess, an inwardly turned shoulder portion adapted to bear against a shoulder portion of the head portion of
35 the screw, and a base portion which is deeper in the centre than in the peripheral regions, so that the centre of the recess does not bear against a crown on the head of the

WO 01/04501

PCT/AU00/00834

- 3 -

screw.

Alternatively the frictional drive surface in the head engaging portion is at least in part dome-shaped and adapted to frictionally engage a corresponding recess in the head portion of the screw.

Preferably at least the head engaging portion of the driving tool and the head portion of the security screw are manufactured from the same material. Typically the entire driving tool and the entire security screw are manufactured from the same material.

Preferably the material is an austenitic stainless steel such as 316 or 304 stainless steel.

One important embodiment of the invention is one in which the driving tool has a head engaging portion with an outer circular shape which is substantially of the same diameter as the head portion of the security screw. This embodiment permits a further inventive development to be used namely the combination of a security washer for use with the security screw, the washer having an upstanding collar portion which surrounds the head portion of the screw thereby preventing access of a tool to the peripheral portion of the head portion of the screw.

Thus, a further inventive aspect is a security screw having a head portion and a threaded shank portion, and a complementary washer which fits on the screw and has an upstanding collar portion which, in use, surrounds the head portion to prevent access to the periphery of the head portion with tools for unscrewing the screw, the screw head portion having a circular profile about the axis of the shank portion and a smooth exposed surface without any tool engagement slots or discontinuities such that torque may be applied to the screw through a driving tool having a screw engagement portion the exterior profile of which is circular and substantially of the same diameter as the head portion of the screw and an interior profile which is at least in part complementary to a portion of the profile of the smooth exposed surface.

Preferably the smooth exposed surface is dome-shaped. Alternatively, the smooth exposed surface has a smoothly rounded shoulder defining an edge surface portion and the shoulder is adapted to be engaged frictionally by a concave complementary portion of the driving tool.

Alternatively the exposed surface of the head portion includes a recess of a symmetrical configuration and disposed coaxial with the threaded shank portions. Preferably the recess is at least partly hemispheroidal.

For good torque transmission characteristics, the material of the screw and driving tool is preferably the same, e.g. stainless steel.

In section the rounded shoulder is preferably part-circular.

For higher security, the washer preferably has an inner edge portion which, in use, extends axially above the top of the exposed surface and the washer is of a hard material, such as hardened steel, to resist cutting of the washer and cutting of the head portion. This increases the resistance to unscrewing with ordinary tools, but the special driving tool can be used to remove the screw.

Brief Description of the Drawings

Notwithstanding any other forms that may fall within its scope, one preferred form of the invention will now be described by way of example only with reference to the accompanying drawings in which:

Fig. 1 is a diagrammatic perspective view of a security screw and a driving tool according to one embodiment of the invention with the driving tool engaged in the chuck of a power drill;

Fig. 2 is a diagrammatic longitudinal cross section through the aligned axes of the driving tool, security screw, and a corresponding mounting nut;

Fig. 3 is a similar cross section to Fig. 2 showing the head of a security screw engaged with a driving tool according to one embodiment of the invention;

Fig. 4 is a schematic cross-section through another embodiment showing installation on a workpiece; and

Fig. 5 is a schematic cross-section of further embodiments of a security screw and driving tool.

5

Detailed Description of the Preferred Embodiments

In the embodiment of Figs 1-3, a security screw 1 is provided having a threaded shank portion 2 and a head portion 3. The head portion 3 is characterised by having a circular profile and a smooth exposed surface which in this example includes a cylindrical peripheral wall 4 and a smooth crown 5 without any tool engagement slots, discontinuities or other profile in contrast to a conventional screw. The crown 5 is typically flat, merging into the cylindrical side wall 4 by way of a rounded shoulder 6.

The screw 1 is driven into place e.g. by engaging with a mounting nut 7 having a female thread 8 by way of a driving tool 9 having a shank portion 10 adapted to be rotated by a suitable implement such as a power drill 11. To this end, the shank 10 of the driving tool 9 is engageable in the chuck 12 of the power tool in the well known manner. The driving tool 9 further comprises head engaging portion in the form of a cup portion 13 incorporating a cylindrical recess 14 coaxial with the shank 10. The recess 14 is sized and shaped to fit over the head portion 3 of a screw such as 1 as will be explained with reference to Figure 3.

The recess 14 in the cup portion 13 has a cylindrical side wall 15 immediately adjacent the mouth 16 of the recess transitioning into an inwardly curved shoulder portion 17 adapted to engage and bear against the shoulder portion 6 of the screw 1. The base of the cylindrical recess 14 is deeper at its centre portion 18 than at the shoulder portion 17 so that the centre of the recess 14 does not bear against the flat crown 5 of an engaged screw. To this end the base portion is typically a shallow conical

WO 01/04501

PCT/AU00/00834

- 6 -

surface in configuration.

In use, when it is desired to fasten a component in place in a secure manner, the component is aligned where desired and the security screw 1 offered up to the mounting nut 7 and rotated to a "finger tight" engagement by the operator. The cup portion 13 of the driving tool 9 is then located over the head 3 of the security screw 1 and force exerted through the power tool 11 as shown by arrows 18 (Fig. 1) forcing the recess 14 in the cup portion 13 of the driving tool 9 into contact with the head 3 of the security screw 1. The driving tool 9 is then rotated by the power drill 11, in turn rotating the head 3 of the screw 1 by frictional engagement between the screw head 3 and the cup 13 of the driving tool 9, until the screw 1 is firmly in place.

It is a particular feature of the security screw 1 that the screw 1 can be removed at any time by authorised personnel having a suitable driving tool, by engaging the tool as previously described and rotating the drill in an anti-clockwise direction to undo the screw 1. In this sense the security screw 1 according to this embodiment of the invention is quite different from known prior art types of security screws which have "one way" screwdriver slots or ramps incorporated in the head of the screw.

Although the operation of the security screw will work to some degree with a wide range of materials used for both the screw and the driving tool, it has been found that for an efficient and consistent operation the head of the screw and the cup portion of the driving tool should be made of the same materials. In practice this normally means that the entire security screw and driving tool are formed from the same material. The material is typically a metal and it is believed that the invention will work with a wide range of metals such as brass or black steel, but has been found particularly effective when both the screw and the driving tool are manufactured from austenitic stainless steel.

It is quite common to manufacture stainless steel screws from austenitic stainless steel such as 304 or 316 stainless steel and such screws are both tough in use and corrosion resistant. The screws are commonly made by the so-called "cold heading process".

By manufacturing the security screws according to an embodiment of the invention by a similar process, but without any tool engagement slots or discontinuities, it is relatively simple and inexpensive to provide a corresponding driving tool made from an identical material e.g. from 304 or 316 stainless steel.

By matching the materials in the security screw and the driving tool in this manner, and by providing a frictional engagement between the head of the screw and the head engaging portion of the driving tool, it has been found that an effective friction drive can be provided which enables a screw to be fastened to a desired torque which will make it extremely difficult for unauthorised removal of the screw due to the smooth nature of the crown of the screw which does not provide any surfaces for engagement with a conventional tool such as a screwdriver or allen key and which furthermore is difficult to grip using pliers or the like. A screw so fastened, can however be readily removed by an authorised user having a driving tool made according to an embodiment of the invention.

Fig. 4 shows a particularly advantageous and enhanced aspect of the invention where extra protection against an unauthorised unscrewing of the screw is required. Like parts have been given like reference numerals. In this embodiment a significant extra component is a generally part conical washer 20 through which the screw shank 2 fits, the washer having typically a flat base surface 21 for abutting a workpiece 22, a central cylindrical recess 23 for accommodating the head portion 4 of the screw 1 and a part conical outer surface 24 which terminates in a lip 25 protruding above the top of the crown of the screw.

Preferably the washer 20 is a relatively hard

material such as tool steel suitably plated to resist corrosion and such a hardened steel resists cutting with conventional tools such as hacksaws and the washer thus enshrouds the head of the screw to prevent access with
5 grippers or other ordinary tools.

Fig. 4 shows schematically an installed situation where a workpiece comprises an outer sheet of material 26 and an overlapped inner sheet of material 27 with an aligned aperture for accommodating the shank 2 of the screw
10 1 and a nut such as a capped nut 7 is provided on the inner surface of the sheet 27.

In this embodiment the driving tool 30 has a shank 31 for mounting in an electric drill conventionally and a head portion 32 which has an outer circular profile
15 substantially the same as the head of the screw so that its leading edge portion can extend below the upstanding lip 25 and into the recess 23. The interior profile of the driving tool includes a concave shoulder 33 which is complementary to the curved shoulder on the edge of the
20 crown of the screw. Typically the sectional shape is part circular and the curve commences substantially at the junction of the shoulder with the outer cylindrical profile.

Figure 5 illustrates two further variants of a screw
25 50 and a driving tool 51 according to the invention. In one example the head 52 of the screw 50 is generally dome-shaped and the driving tool 51 includes a head engaging portion 53 which has a recess 54 shaped complementary to the dome-shaped head 52 of the screw 50. The dome-shaped
30 head 52 is shaped so that it cannot be gripped, and in particular about its perimeter, with pliers or the like for unauthorised removal. That is, unlike the preceding embodiments, the head 52 of the screw 50 does not include a cylindrical perimeter wall.

35 The alternate embodiment shown in Figure 5 includes a recess 55 formed in the head 52 of the screw 50. The recess 55 is smooth and without slots or discontinuities

WO 01/04501

PCT/AU00/00834

- 9 -

and, in this example, includes a hemispheroidal recess 56 formed coaxial with the screw 50. The driving tool 51 has a head engaging portion 53 which is at least partly ball-shaped and generally complementary to the hemispheroidal recess 56 of the screw head 52. The alternate screw 50 is designed to be used in conjunction with the security washer 24 which is similar in shape to the previous washer. The security washer 24 together with the alternate screw 50 minimises any likelihood of the head 52 of the screw 50 being gripped by pliers or the like. Like components of the embodiments of Figure 5 have been designated with the same reference numerals in order to avoid repetition.

It should also be appreciated that the frictional drive surface of the head engaging portion such as 13, 32 or 53 can be varied to increase or decrease the torque applied to the screw such as 2 or 50. Similarly, the material and/or surface roughness of the friction drive surface and corresponding exposed surface of the head of the screw may be varied depending on the torque required to be applied. The driving tool may also be used with a grit finish to promote frictional engagement between the friction drive surface of the driving tool and the corresponding head portion of the screw. The friction drive surface may entirely or only partly engage the head portion of the screw depending on the torque or driving force which is to be imparted to the screw. A temporary adhesive with strong shear strength may also promote frictional engagement between the driving tool and the head of the screw. The friction drive surface need not be shaped complementary so as to "fit" the head of the screw but rather may be designed to wear with use where after time the mutually engaging surfaces are shaped generally complementary to one another.

Those skilled in the art will appreciate that the invention described herein is susceptible to variations and modifications other than those specifically described. For example, neither the head portion of the screw nor the

WO 01/04501

PCT/AU00/00834

- 10 -

friction drive surface of the driving tool are limited to the shapes described provided they broadly fall within the scope of the claimed invention.

5 All such variations and modifications are to be considered within the scope of the present invention the nature of which is to be determined from the foregoing description.

WO 01/04501

PCT/AU00/00834

- 11 -

THE CLAIMS DEFINING THE INVENTION ARE AS FOLLOWS:

1. A security screw having a head portion and a threaded shank portion, and a complementary washer which fits on the screw and has an upstanding collar portion which, in use, surrounds the head portion to prevent access to the periphery of the head portion with tools for unscrewing the screw, the screw head portion having a circular profile about the axis of the shank portion and a smooth exposed surface without any tool engagement slots or discontinuities such that torque may be applied to the screw through a driving tool having a screw engagement portion the exterior profile of which is circular and substantially of the same diameter as the head portion of the screw and an interior profile which is at least in part complementary to a portion of the profile of the smooth exposed surface.
2. A security screw arrangement as defined in claim 1 wherein the smooth exposed surface is dome-shaped.
3. A security screw arrangement as defined in claim 1 wherein the smooth exposed surface has a smoothly rounded shoulder defining an edge surface portion and the shoulder is adapted to be engaged frictionally by a concave complementary portion of the driving tool.
4. A security screw arrangement as defined in claim 1 wherein the exposed surface of the head portion includes a recess of a symmetrical configuration and disposed coaxial with the threaded shank portion.
5. A security screw as defined in any one of the preceding claims wherein the washer has an inner edge portion adapted to extend axially above the top of the exposed surface of the screw and the washer is of a relatively hard material to resist cutting of the washer.
6. A method of installing or connecting components using a screw in a manner to resist unscrewing, the method comprising using a security screw and washer as defined in any one of the above claims and using a driving tool to

apply torque to the screw by entering engagement of a friction drive surface of the driving tool which is at least in part shaped complementary to a portion of the smooth exposed surface of the head portion of the screw.

- 5 7. A security screw comprising a threaded shank portion and a head portion, the head portion being characterised by having a circular profile about the axis of the shank portion and a smooth exposed surface without any tool engagement slots or discontinuities.
- 10 8. A security screw as defined in claim 7 wherein the exposed surface of the head portion is in the form of a dome-shaped crown.
9. A security screw as defined in claim 7 wherein the screw is manufactured from 316 or 304 stainless steel.
- 15 10. A driving tool for a predetermined security screw of the type comprising a threaded shank portion and a head portion, the head portion of the security screw being characterised by having a circular profile about the axis of the shank portion and a smooth exposed surface without
- 20 any tool engagement slots or discontinuities, the driving tool comprising a shank portion adapted to be rotated by a suitable implement and a head engaging portion incorporating a friction drive surface which is coaxial with the shank portion, the friction drive surface being
- 25 configured to fit over the head portion of the screw so as to provide a friction drive between the head engaging portion and the security screw when the driving tool is rotated by the implement.
- 30 11. A washer being adapted to locate under a head portion of a screw, the washer comprising an upstanding collar portion which is adapted to surround the head portion of the screw thereby preventing access of a tool to a peripheral portion of the head portion of the screw.

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

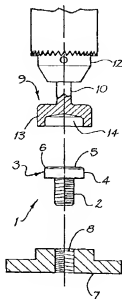
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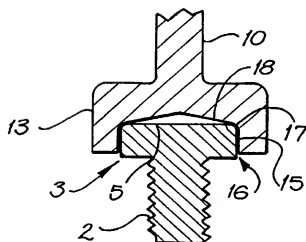
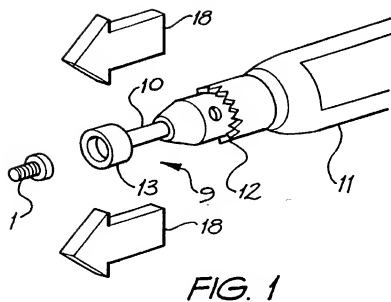
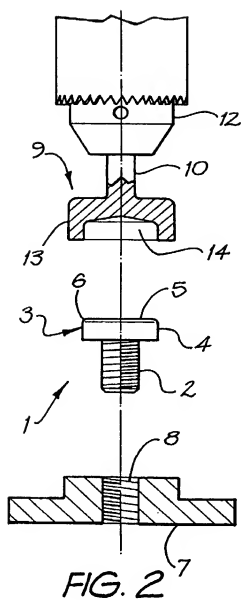
- (51) International Patent Classification: F16B 41/00, (74) Agent: GRIFFITH HACK; Level 8, 168 Walker Street, North Sydney, NSW 2060 (AU).
- (21) International Application Number: PCT/AU00/00834 (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, VZ, VN, YU, ZA, ZW.
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- (71) Applicant (*for all designated States except US*): GOOD-CART PTY LTD [AU/AU]; 2/81 Bassett Street, Mona Vale, NSW 2103 (AU)
- (72) Inventor; and
(75) Inventor/Applicant (*for US only*): RAWSON-HARRIS, Douglas [AU/AU]; 2/81 Bassett Street, Mona Vale, NSW 2103 (AU).
- Published:
— With international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: SECURITY SCREW



(57) Abstract: The present invention relates generally to a security screw (1) having threaded shank portion (2) and head portion (3). The head portion (3) is characterised by having a circular profile with a cylindrical peripheral wall (4) and a smooth crown (5) without any tool engagement slots, recesses or other profile in contrast to a convention screw. The security screw (1) is driven into place by way of a driving tool (9) having shank portion (10) adapted to be rotated by a suitable implement such as a power drill. The driving tool (9) further comprises a cup portion (13) incorporating a cylindrical recess (14) coaxial with the shank (10). The recess (14) is sized and shaped to fit over the head portion (3) of the screw (1).

WO 01/04501 A1



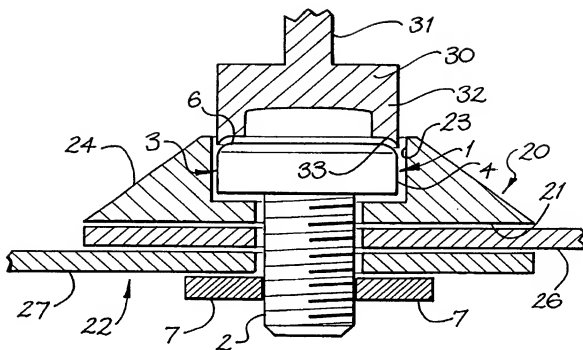


FIG. 4

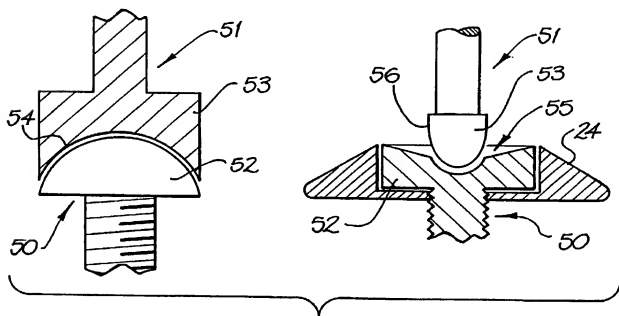


FIG. 5

DECLARATION FOR PATENT APPLICATION

22078/001

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (If only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Security Screw

the specification of which: (check one)

I ☐ it is attached hereto.
☒ It was filed on July 12, 2000, as United States Patent Application Serial No. or PCT International Application Number PCT/AU00/00834, and was amended on 10 (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with 37 CFR § 1.56(c).

Prior Foreign Application(s): I hereby claim foreign priority benefit under 35 U.S.C. § 119(e)-(f) or (3655) of any foreign application(s) for patent or inventor's certificate listed below, or § 365(s) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

 EQ 1580
 (Application No.)

 Australia
 (Country)

 12/July/2000
 (Day/Month/Year Filed)

☒ YES
☐ NO

Priority Claimed

☐ YES
☒ NO

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below or 34 U.S.C. § 365(c) of any PCT International Application designating the United States of America listed below, and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application or PCT application in the manner provided by 35 U.S.C. § 112, first paragraph, I acknowledge the duty to disclose material information as defined in 37 CFR § 1.56(s) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

(U.S. or PCT Application Serial No.)

(U.S. or PCT Filing Date)

(Status - patented, pending, abandoned)

(U.S. or PCT Application Serial No.)

(U.S. or PCT Filing Date)

(Status - patented, pending, abandoned)

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements are made with the knowledge that willful false statements are and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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